

Via email and certified mail

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Reference No.: ES-15-015

November 21, 2014

Ms. Carmen Santos  
Regional PCB Coordinator  
US EPA Region 9  
75 Hawthorne Street  
Mail Code: WST-5  
San Francisco, CA 94105

**Subject: Historical Polychlorinated Biphenyl Release in the Lawrence Berkeley National Laboratory  
"Old Town" Demolition Project Area**

Dear Ms. Santos,

The purpose of this letter is to respond to your request for information concerning the source, concentration, and date of the previously reported release of polychlorinated biphenyls (PCBs) in the Old Town Demolition Project area at Lawrence Berkeley National Laboratory (LBNL). LBNL has conducted a comprehensive evaluation of the release site history. Given the operational history in the Old Town area, the collected evidence indicates that the PCB release(s) occurred in the decades immediately after construction of these buildings and prior to 1978, although the specific source(s) and concentration(s) of the release(s) could not be determined. Supporting evidence for this conclusion is provided below. Accordingly, LBNL plans to address the PCB releases identified in the Old Town Demolition Project area in compliance with Toxic Substances Control Act (TSCA) regulations relevant to spills that occurred prior to 1978.

#### **BACKGROUND**

LBNL is in the process of demolishing buildings and building slabs in a section of the site called "Old Town." The buildings in Old Town were constructed in the 1940s and 1950s and were not built to current seismic, fire, and other safety standards. Some of these buildings have already been demolished and those remaining do not provide effective space for LBNL's current research needs. The Old Town Demolition Project ("the Project") will remove the remaining buildings and their concrete foundation slabs, including the associated subsurface infrastructure such as underground utilities, pits and sumps, and excavated soil. The Project will be conducted in phases, with the first phase consisting of the demolition of Buildings 5, 16, and 16A; removal of the foundation slabs of these three buildings and the foundation slabs at previously demolished Buildings 40, 41, 52, and 52A; and grading of the demolition

area. The locations of the buildings and foundations currently planned for demolition are shown on Figure 1. The first phase is tentatively scheduled to begin in early 2015 and be completed in early 2016.

Environmental sampling is included within the Project's scope as part of a due diligence process to properly manage excavated soil and to determine potential cost and schedule impacts. Accordingly, soil samples have been collected beneath and adjacent to the Old Town buildings and building slabs planned for demolition during the Project. PCB contaminated soil that is excavated as a result of Project demolition activities will be properly disposed at permitted offsite facilities.

During initial soil sampling in the Project area, LBNL discovered a historical PCB release in the Building 52 area of the Project that was immediately reported on April 28, 2014 to the California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC) and the United States Environmental Protection Agency (EPA) by voice mail and email. Analysis showed that PCBs were present in the soil at concentrations greater than the TSCA self-implementing cleanup level for soil in high occupancy areas of 1 mg/kg.

A written notification report, including a summary of the findings, was submitted to DTSC on May 8, 2014, with a copy of the notification provided to EPA (LBNL Reference No: ES-14-064b). On June 18, 2014 LBNL notified DTSC and EPA that evidence of a historical release had also been discovered in the Building 16 area of the Project. A written notification report including a summary of this finding was submitted to DTSC on July 3, 2014, with a copy of the notification provided to EPA (LBNL Reference No: ES-14-077). The notifications to DTSC were submitted in accordance with requirements of LBNL's Resource Conservation and Recovery Act (RCRA) Hazardous Waste Handling Facility Permit. The notifications were also provided to the EPA because of potential TSCA-related requirements. On September 3, 2014 LBNL submitted a requested status report to DTSC regarding soil contaminated with PCBs in the Project area (LBNL Reference No: ES-14-083). A copy of this report was also provided to EPA.

#### **HAZARD ASSESSMENT/CONTROL**

There is no unreasonable risk to public health from the PCB-contaminated soil in the Project area. The human health exposure pathways that drive risk are dermal contact with and ingestion of PCB-contaminated soil. The areas of soil exceeding 1 mg/kg where there is potential exposure have been barricaded and posted with warning signs requiring Hazardous Waste Operations and Emergency Response training for any work that disturbs soil in those areas. In addition, soil penetration work at LBNL is conducted under a penetration permit process that includes a review of potential contamination hazards by the LBNL Environmental Services Group. If a potential hazard is identified, the LBNL Health and Safety Operations Support Team is contacted to establish required controls. Risk mitigation measures for construction subcontractors at LBNL include completion of a Construction Safety Checklist and a Job Hazards Analysis (JHA) before starting work and a Pre-Task Hazard Analysis each day prior to starting work to identify site-specific conditions.

There is no unreasonable risk to the environment from the PCB-contaminated soil in the Project area. Potential exposure of wildlife to contamination within the developed area of LBNL was determined not to be a completed exposure pathway in LBNL's DTSC approved 2002 Ecological Risk Assessment (ERA). The ERA reported that "The Scoping ERA's CSM indicated that ecological receptors are not exposed to COPECs (and they are not likely to be exposed in the future) throughout the central developed area of Berkeley Lab." (CSM: Conceptual Site Model, COPEC: Chemical of Potential Ecological Concern).

#### **PCB SAMPLING AND REMEDIATION (2010 TO PRESENT)**

In 2010, as part of characterization activities prior to building demolition, concrete core samples were collected from the Building 52 foundation slab and analyzed for PCBs. PCBs were detected in the concrete at a maximum concentration of 20 mg/kg. Sediment samples collected from the bottom of a concrete-lined utility trench contained PCBs at a maximum concentration of 270 mg/kg. The dust and sediment from the bottom of the trench were subsequently removed using a HEPA-vac. The removed material was bagged, labeled as hazardous, manifested, and disposed of at Burlington Environmental's TSCA permitted facility in Kent, Washington in 2011. Also in 2011, 10 pulverized concrete powder samples were taken from the surface of the bottom slab of the trench and sampled for PCBs, which were detected at a maximum concentration of 10.4 mg/kg. In February 2012, the concrete bottom slab of the trench where the PCBs were detected was demolished, excavated, and transported to Republic Services' solid waste landfill in Livermore, California, and the entire trench system – except for a concrete sump – was backfilled with concrete slurry and capped with a 4-inch thick concrete slab.

In May 2014 samples of the liquid and sediment in the sump were collected and analyzed for PCBs. PCBs were detected at a concentration of 4,500 µg/L and 1,800 mg/kg in the liquid and sediment, respectively. On June 5, 2014 the liquid and sediment were removed from the sump, containerized, and transferred temporarily to the LBNL Hazardous Waste Handling Facility pending approval of the waste profiles for disposal at a TSCA permitted facility. In October 2014 the material was transported to Clean Harbors Aragonite LLC in Aragonite, Utah for disposal.

From February to August 2014, soil samples were collected in the Project area and analyzed for PCBs using EPA Method 8082. Most samples were analyzed by Curtis and Tompkins Ltd. in Berkeley, California. Except for a limited number collected prior to May 12, 2014, all samples were analyzed using the soxhlet extraction method. A few samples, which were collected in potentially radiologically contaminated areas, were analyzed by GEL Laboratories in South Carolina.

Analytical results for the collected samples are provided by building area in attachments to this letter as follows: Table 1a (Building 5 area), Table 1b (Building 16/16A area), and Table 1c (Buildings 52/52A area); and the results are also shown at the sampling locations on Figure 2 (Buildings 5 and 16/16A area), Figure 3 (Building 52/Building 52A area), and Figure 4 (Building 52 area detail). These tables and figures were previously provided to the DTSC and EPA in the September 3, 2014 status report (LBNL

Reference No: ES-14-083). As shown on the figures, PCBs were detected in the soil at concentrations greater than 1 mg/kg in the following areas:

- West of Building 52,
- Near the northwest corner of the Building 52A foundation slab,
- West of Building 16, and
- Below the southwestern corner of Building 16

## **INFORMATION REVIEWED**

The following information was reviewed to assess the original source, concentration, and date of PCB releases in the Project area.

### **Construction Plans**

- As-Built "Bevatron ¼ size Model Foundation Plan & Footing Details" drawing 52-13-DA dated 8/31/1948, showing the sump and transverse trench (sloping from the east of the slab to the sump on the west)
- Building 52 Trench Addition (University of California Radiation Laboratory, Plant Engineering, 10/21/1958)
- Building 52B 360 KW MG Set #6 Trench and Pad Layout (University of California Radiation Laboratory, Plant Engineering, 6/21/1960)
- Building 52A Steel Building - 250 KW MG Location XC Power Supply Pad (University of California Radiation Laboratory, Plant Engineering, 7/11/1958)
- Selected historic and construction photographs from the LBNL photo archive

### **Environmental Investigation Reports**

- RCRA Facility Assessment (RFA) at the Lawrence Berkeley Laboratory, Chapter 1 - Introduction (Pages 1-16 and 32-33) and Chapter 13 - Descriptions of Individual Units in Area 10 (Pages 347-385) (LBNL Environmental Restoration Program, September 20, 1992).
- RCRA Facility Investigation (RFI) at the Lawrence Berkeley Laboratory, Module B - Old Town Area (Pages B1-101) Draft Final (LBNL Environmental Restoration Program, September 29, 2000).
- Draft Workplan for Preliminary Subsurface Investigation - Old Town Demolition Project: Buildings 5, 16, 16A, 40, 41, 52, and 52A, (LBNL Environmental Restoration Program, March 2014).
- Preliminary Subsurface Investigation Report Old Town Demolition Project: Buildings 5, 16, 16A, 40, 41, 52, and 52A (LBNL Environmental Restoration Program, October 2014).

### **Building Characterization Documents**

- Identification and Evaluation of Old Town Buildings, Ernest Orlando Lawrence Berkeley National Laboratory (D.W. Harvey, January 2003).
- Draft Workplan for Reconnaissance Level Characterization of Buildings 4, 5, 14, 40, 41, 52, and 52A at the Lawrence Berkeley National Laboratory, Berkeley, California (Weiss Associates, July 9, 2010).

- Reconnaissance-Level Characterization Report for Project 1016, Buildings 16, 16A, 5 and Miscellaneous Equipment at the University of California Lawrence Berkeley National Laboratory, Berkeley California (B&B Environmental Services, July 2014).
- Memorandum regarding Old Town, B52 Building Demolition, Project Monitoring, Asbestos and Hazardous Materials Removal (Mark T. Schmidt, LBNL, June 26, 2014).
- Non-Radiological Reconnaissance Level Characterization Report, University of California, Lawrence Berkeley National Laboratory Buildings 5, 16, 16A and Miscellaneous Equipment, One Cyclotron Road Berkeley, California, Prepared for B&B Environmental Safety, Inc., Rev. 0 (Northgate, June 2014).
- Reconnaissance-Level Characterization Report for Buildings 5, 14, 25A, 40, 41, 44, 44A, 44B, 52, and 52A at the Lawrence Berkeley National Laboratory, Berkeley California (Weiss Associates, December 2010).

#### **Other Sources**

- Database search of the Department of Energy's Occurrence Reporting and Processing System (ORPS).
- Process Knowledge "Contact Sheet" documenting an interview conducted on November 20, 2009 between P. Corrado (LLNL) and James Haley, a former LBNL employee who worked for the environment, health and safety organization from 1955 to 2005.
- Hazard Maps for Building 5, Building 16/Building 16A, Building 52/52A (LBNL, 2010).

#### **HISTORICAL OPERATIONS**

Historical operations in the Project area were evaluated to identify potential sources of the detected PCBs. Potential sources identified included historical operations in, or associated with, Buildings 52, 52A, 16, and 16A.

##### **Former Building 52**

Building 52 was built in 1948 for use as a general purpose laboratory. A miniature Bevatron model, which included a cyclotron injector, magnet, and vacuum pumping system, was installed inside the building footprint while the building was constructed. The Bevatron model was operated as an accelerator in 1949, was used for experimental electronics testing in the early 1950s, and was removed from the building in the 1955-56 time frame. By the early 1960s, Building 52 had become a general research and shop facility.

Building 52 was constructed with corrugated metal panel walls, a metal roof, and a concrete foundation slab. The main floor area was criss-crossed by several concrete lined and interconnected utility trenches, which drained into a concrete sump located at the west end of the southern transverse (east-west) utility trench. The 1948 as-built drawing of Building 52 shows a portion of the utility trenches and the sump, and additional utility trenches were shown on the 1958 as-built drawing. The locations of the utility trenches and sump are shown on Figure 3 and Figure 4.

Two pipe lines drained the sump: 1) a 3-inch diameter cast iron sanitary sewer line, which was found to be fully cracked through on the outside of the sump when the sump was uncovered in 2014; and 2) an approximately 2-inch diameter steel pipe that historically discharged to an above-ground waste oil storage tank located at Building 52B (both Building 52B and the tank were previously demolished). Both of these lines were cut and capped just outside of the sump on June 5, 2014 and the sump was sealed to prevent rainwater from entering it. The 2-inch diameter steel line was apparently fed from Building 52 and also appears to have been fed from Building 16 and possibly Building 5.

The former Building 52B waste oil storage tank was installed in 1948, abandoned in 1964, and then cleaned and filled with concrete in 1989. In September 1997, Building 52B and the tank were removed. At the time the tank was removed the adjacent contaminated soil was excavated and the waste oil line was cut at the eastern face of the excavation.

The 1992 RCRA Facility Assessment (RFA) reported "historical aerial photographs taken in 1954 show that a drum storage area was formerly located on the east side of Building 52. The drums were stored on a drum storage rack without secondary containment. Since Building 52 once housed a motor generator room and a small particle accelerator, it is suspected that the drums contained transformer oil, vacuum pump oil, or solvents." The adjacent electrical pad also supported electrical transformers that contained dielectric insulation oil that is believed to have contained PCBs. The drum storage area was investigated under the oversight of the DTSC during the RCRA Facility Investigation (RFI). PCBs were detected at concentrations less than 1 mg/kg in the soil samples collected east of Building 52. Based on those analytical results, no remedial action was required by DTSC.

#### **Former Building 52A**

The 1958 construction plans for Building 52A show that the foundation slab at the Building 52A area and the adjacent electrical pad pre-date the 1961 construction of Building 52A; the construction date of the slab was not listed on the plans, but the "transformer pad" is shown on Site Plan No. 52-12-4 dated 8/31/1948. Historical photographs taken in 1950 and 1957 also show drum storage racks located at the future Building 52A location. These racks were apparently located on the concrete pad that predated construction of Building 52A in 1961, at which time the use of the area for drum storage presumably ceased. Whether the drum storage area on the east side of Building 52 referenced in the RFA and the drum rack area shown on the historical photographs at the future Building 52A location are the same is not known. It appears, however, that drums were also likely stored immediately adjacent to Building 52 on the east side based on the detection of PCBs and petroleum hydrocarbons in soil samples collected in that area during the RFI.

#### **Buildings 16/16A**

Building 16 is a single story slab-on-grade building that was originally built to house the XC Calutron magnet, a device used for enriching uranium. Only about the northern third of the building (currently the southern room of the machine shop) was present in May 1947, and at that time it was a carpenter

shop. Some small shop buildings and storage racks (subsequently demolished) and a concrete loading dock were located where the southern end of Building 16 is currently located. The loading dock apparently now partially underlies the southern end of the building. Building 16 had been completed by February 1948, and by March 1950 a small extension to Building 16 had been added. In 1959 a large 6-foot deep pit was excavated beneath the high bay area in the center of the building. This concrete-lined pit contained a sump with sump pump and has housed several physics experiments. In 1960 a covered concrete pad, called the "Perkins Pad" was added to the southeast part of Building 16 to house electrical equipment.

At approximately this time Building 16A was constructed, which housed transformers, and paving between the Building 5 roadway and Buildings 16 and 16A were added. The south end of Building 16 (Room 101) was extended in 1970 to accommodate a large vacuum chamber known as the Horton Sphere. An addition was added to the north end of the building to extend the machine shop in the 1980s. The adjacent electrical pad supported electrical transformers that contained dielectric insulating oil that is believed to have contained PCBs. The transformer pad is shown on Site Plan No. 52-12-4 dated 8/31/1948 and shown on historical photographs taken in 1948.

The central part of the building was occupied by a control room, an ion source development area, mercury and oil diffusion pumps, chemical storage areas, electrical shops, and a wet lab. Room 110 contained a capacitor bank. An oil-filled experimental vessel and large capacitors were reportedly present within the sub-floor pit and high-bay area of Room 125. Room 125 at one time also apparently contained the XC Calutron magnet and a small cyclotron. Oil diffusion vacuum pumps were used in Rooms 101 and 137. The Perkins Pad contained transformers, power supplies, and mechanical vacuum pumps. The southern end of the building currently houses the Horton Sphere and oil diffusion pumps, and at times has housed a neutron generator and mercury diffusion vacuum pumps. Waste accumulation areas were located along the west side of the building.

## CONCLUSIONS

The evidence collected during the evaluation described above supports the conclusion that the PCB releases in the Project area occurred prior to 1978, although the specific source(s) and concentration(s) of the release(s) could not be determined. This conclusion is based on the operational history of potential sources in the areas where the PCBs were detected, including the historical use of the Bevatron model in Building 52 between 1949 and 1955 to 1956, the presence of a drum storage area in the 1950s at the Building 52A area, the construction of Building 52A in 1961 at the location of the drum storage area, and the abandonment of the waste oil tank at Building 52B in 1964.

In addition, data collected by LBNL during the Project area PCB investigation substantiates the pre-1978 source scenario. PCB contamination is present in the shallow soil in several locations in the Project area including beneath the south end of Building 16 and beneath the roadway west of Building 52. The south

end of Building 16 was constructed as an addition in 1970. PCBs were only detected at very low levels in the fill immediately beneath the concrete foundation slab at the south end of the building but were detected at levels exceeding 1.0 mg/kg in deeper samples, suggesting that the release occurred before placement of the fill for construction of the addition in 1970. In addition, PCBs were detected at levels exceeding 1.0 mg/kg beneath the roadway west of Building 52. This roadway was paved prior to 1957, indicating that shallow soil contamination detected beneath the pavement likely originated from a release that occurred prior to that date.

Based on the findings described above, LBNL plans to address the PCB releases identified in the Old Town Demolition Project area in compliance with TSCA regulations relevant to spills that occurred prior to 1978.

If you have any questions or require additional information we would be happy to meet with you or you can contact David Baskin (dabaskin@lbl.gov) at 510-486-5684 or me (ropauer@lbl.gov) at 510-486-7614.

Sincerely,



Ron Pauer  
Environmental Manager

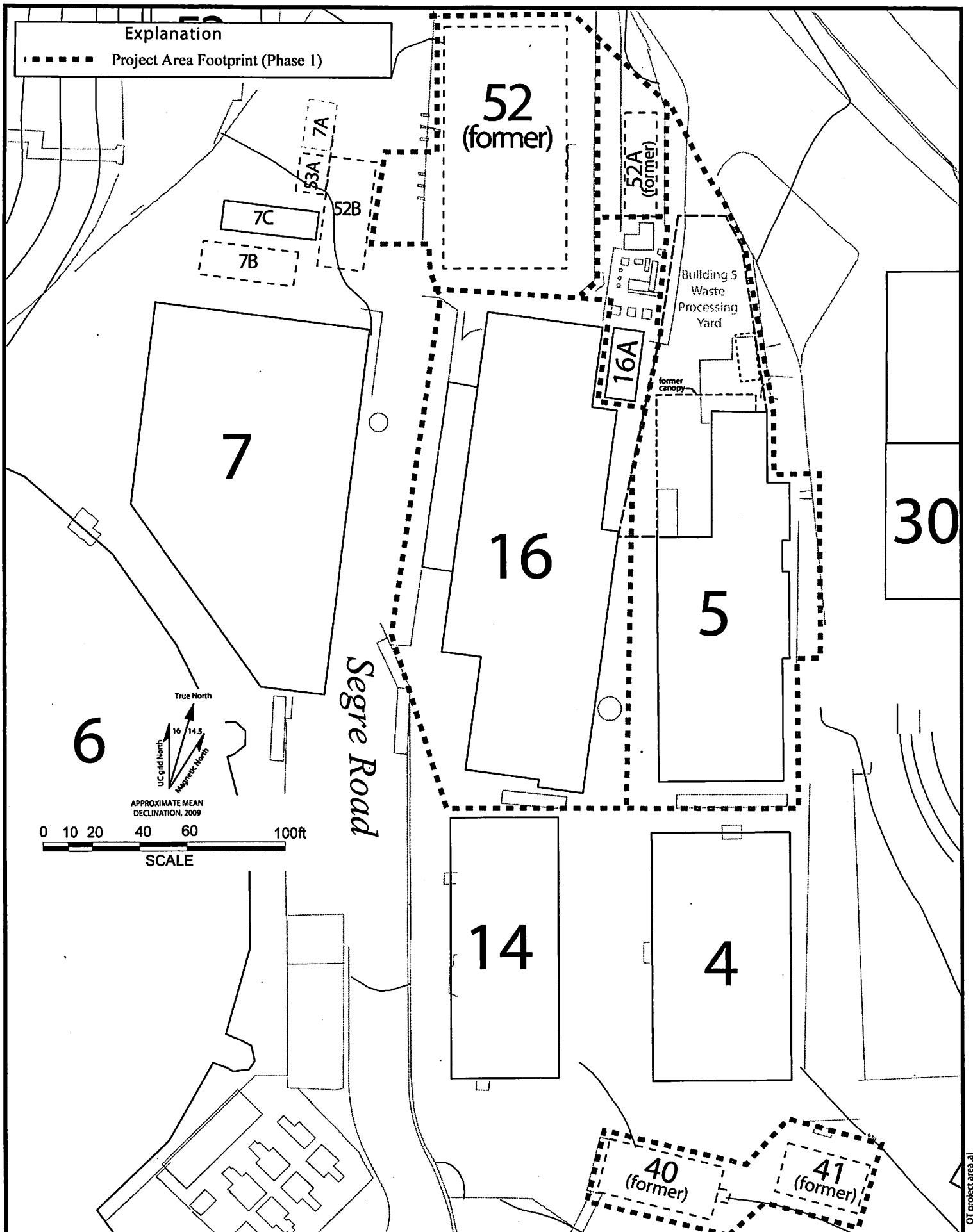
**enclosures:**

Figures and Tables

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**Figure 1. Location of Old Town Demolition Project Area (Phase 1).**

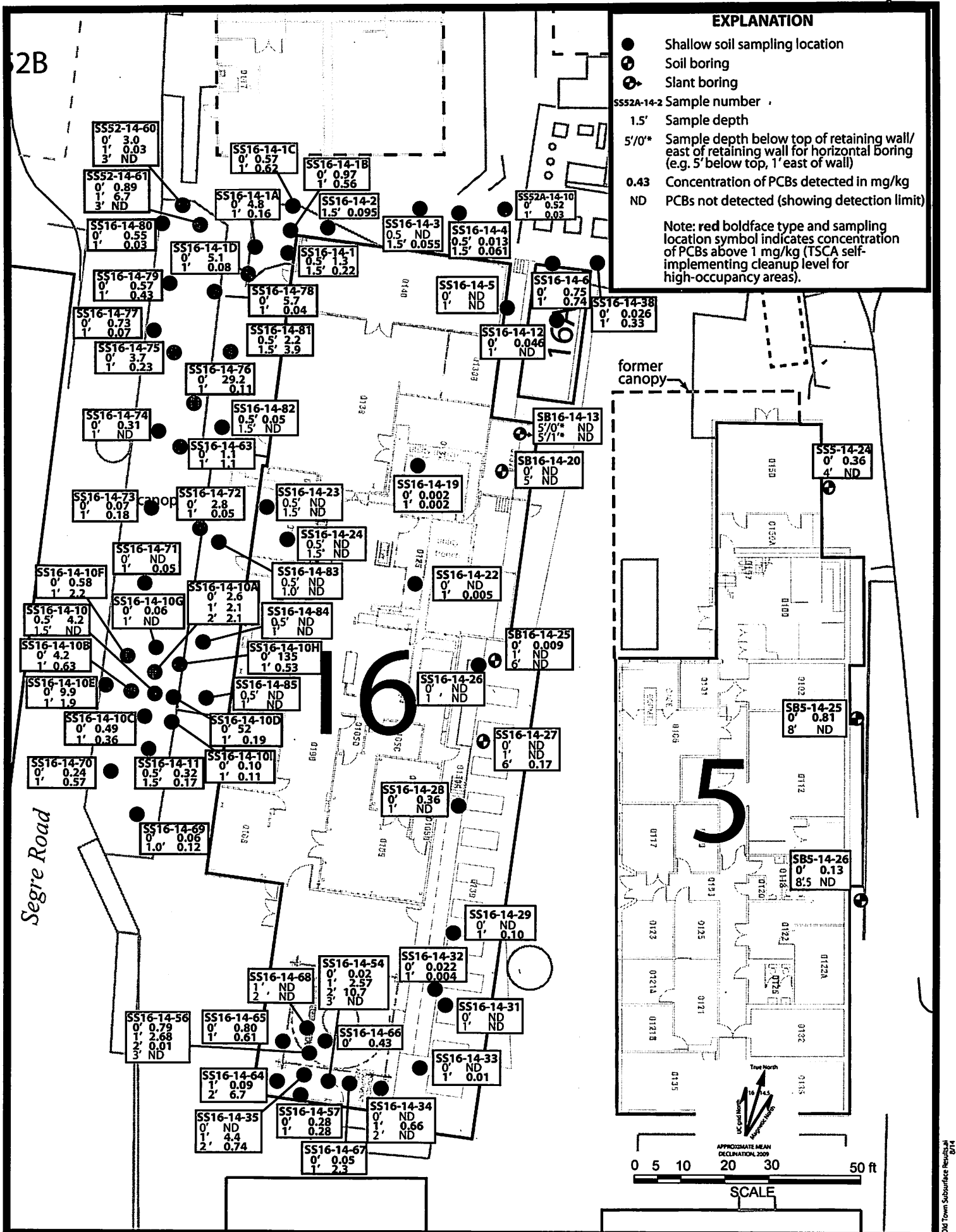
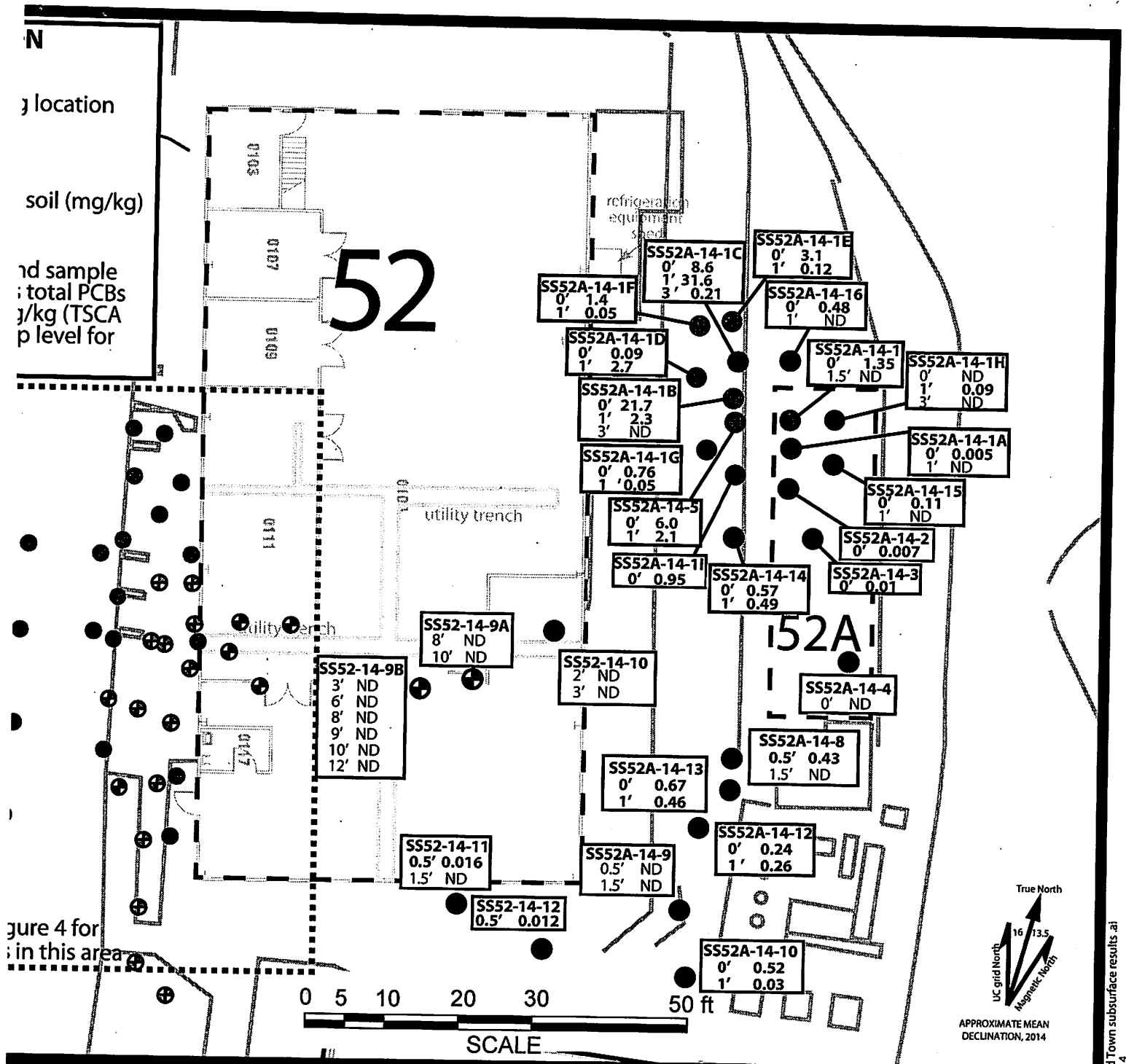


Figure 2. Soil Sampling Results for PCBs in the Vicinity of Buildings 5 and 16



ing Results for PCBs in the Vicinity of Buildings 52 and 52A

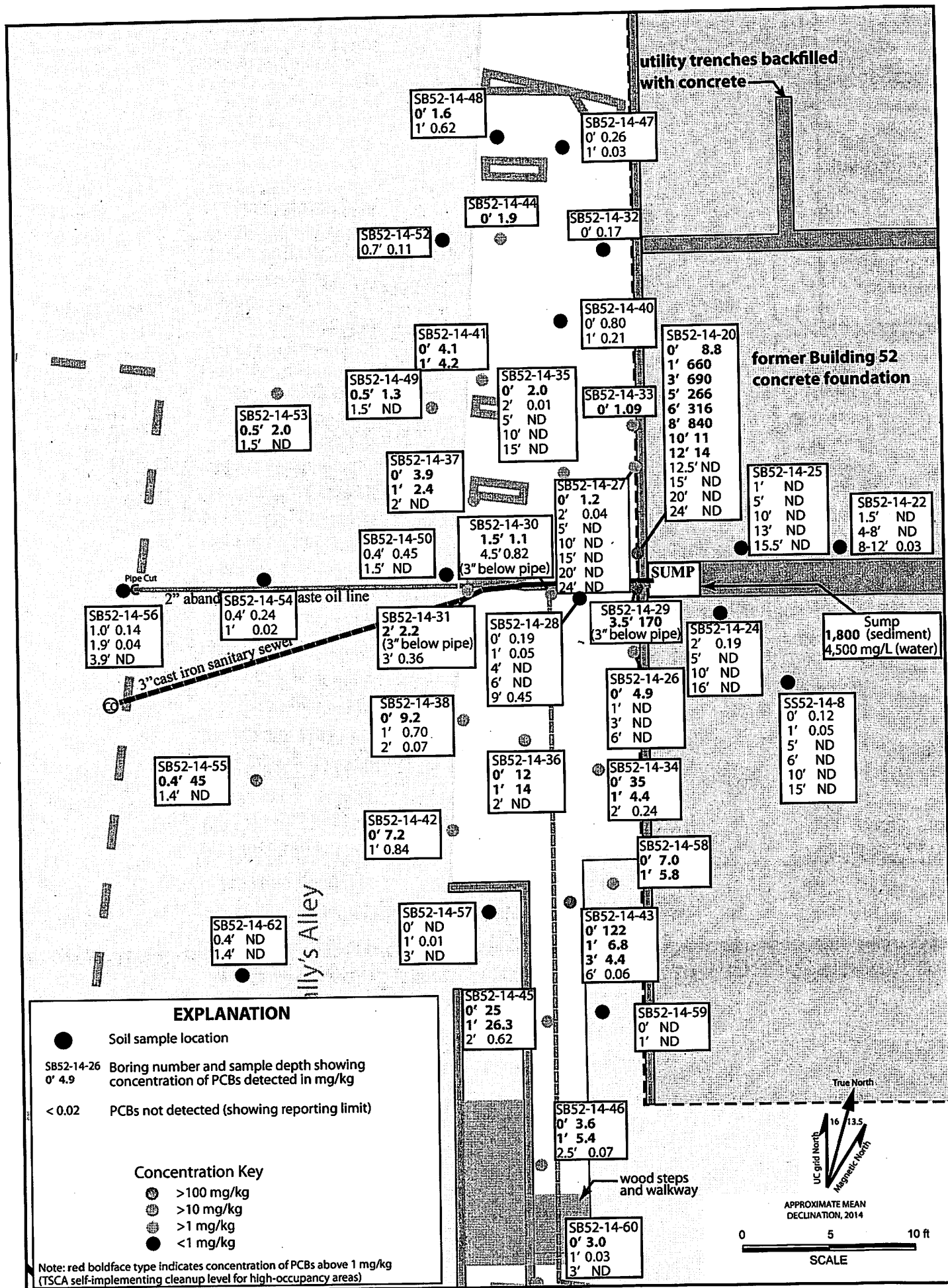


Figure 4. Concentrations of PCBs Detected (mg/kg) in the Building 52 Sump Area .

**Table 1-A**  
**Soil Sampling Results from Old Town Demolition Project-Building 5 Area**  
**Polychlorinated Biphenyls**  
(concentrations in mg/kg)

Location	Sample ID	Depth (ft)	Lab	Date	PCBs-8082**				
					Aroclor-1242	Aroclor-1254	Aroclor-1260	Aroclor-1268	Total PCBs
					Screening Level*				
									1.0
<b>Soil Samples</b>									
SB5-14-24	SB5-14-24-0'	0.0	GEL	6/13/14	<0.0739	0.219	0.139		0.358
	SB5-14-24-4'	4.0	GEL	6/13/14	<0.00797	<0.00797	<0.00797		ND
SB5-14-25	SB5-14-25-0'	0.0	GEL	5/20/14	<0.0743	0.578	0.235		0.813
	SB5-14-25-8'	8.0	GEL	5/20/14	<0.00408	<0.00408	<0.00408		ND
SB5-14-26	SB5-14-26-0'	0.0	GEL	5/20/14	<0.0195	0.0849 <sup>P</sup>	0.0409 <sup>P</sup>		0.1258 <sup>P</sup>
	SB5-14-26-8.5'	8.5	GEL	5/20/14	<0.00413	<0.00413	<0.00413		ND

\* Screening level for total PCBs is the Toxic Substances Control Act (TSCA) self-implementing cleanup level for PCBs in soil in high-occupancy areas.

\*\* Analytes included Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260, and 1268 unless otherwise noted.

GEL: Analysis by General Engineering Laboratories LLC

<sup>P</sup> The concentrations between the primary and confirmation columns/detectors is >40% different.

<	concentration less than reporting limit (RL)
	not analyzed

ND: No PCB Aroclors detected

**Table 1-B**  
**Soil Sampling Results from Old Town Demolition Project-Building 16 Area**  
**Polychlorinated Biphenyls**  
(concentrations in mg/kg)

Screening Level*					PCBs-8082**				
					Aroclor-1242	Aroclor-1254	Aroclor-1260	Aroclor-1268	Total PCBs
									1.0
Location	Sample ID	Depth (ft)	Lab	Date					
Soil Samples									
SS16-14-1	SS16-14-1-0.5'	0.5	CT	5/30/14	<0.034	1.3	<0.034	<0.034	1.3
	SS16-14-1-1.5'	1.5	CT	5/30/14	<0.0098	0.22	<0.0098	<0.0098	0.22
SS16-14-1A	SS16-14-1A-3"	0.0	CT	6/25/14	<0.067	3.7	1.1	<0.067	4.8
	SS16-14-1A-1'	1.0	CT	6/25/14	<0.0099	0.047	0.113	<0.0099	0.16
SS16-14-1B	SS16-14-1B-3"	0.0	CT	6/25/14	<0.034	0.72	0.25	<0.034	0.97
	SS16-14-1B-1'	1.0	CT	6/25/14	<0.033	0.33	0.23	<0.033	0.56
SS16-14-1C	SS16-14-1C-3"	0.0	CT	6/25/14	<0.034	0.32	0.25	<0.034	0.57
	SS16-14-1C-1'	1.0	CT	6/25/14	<0.034	0.33	0.29	<0.034	0.62
SS16-14-1D	SS16-14-1D-3"	0.0	CT	6/25/14	<0.066	4.4	0.73	<0.066	5.13
	SS16-14-1D-1'	1.0	CT	6/25/14	<0.0097	0.058	0.017	<0.0097	0.075
SS16-14-2	SS16-14-2-0.5'	0.5	CT	5/30/14	<0.0096	0.095	<0.0096	<0.0096	0.095
SS16-14-3	SS16-14-3-0.5'	0.5	CT	5/30/14	<0.0099	<0.0099	<0.0099	<0.0099	ND
	SS16-14-3-1.5'	1.5	CT	5/30/14	<0.0099	0.055	<0.0099	<0.0099	0.055
SS16-14-4	SS16-14-4-0.5'	0.5	CT	5/30/14	<0.0097	0.013	<0.0097	<0.0097	0.013
	SS16-14-4-1.5'	1.5	CT	5/30/14	<0.0098	0.061	<0.0098	<0.0098	0.061
SS16-14-5	SS16-14-5-0'	0.0	CT	6/2/14	<0.0097	<0.0097	<0.0097	<0.0097	ND
	SS16-14-5-1'	1.0	CT	6/2/14	<0.0097	<0.0097	<0.0097	<0.0097	ND
SS16-14-6	SS16-14-6-0'	0.0	CT	7/21/14	<0.0099	0.48	0.27	<0.0099	0.75
	SS16-14-6-1'	1.0	CT	7/21/14	<0.0099	0.45	0.29	<0.0099	0.74
SS16-14-10	SS16-14-10-0.5'	0.5	CT	6/2/14	<0.067	4.2	<0.067	<0.067	4.2
	SS16-14-10-1.5'	1.5	CT	6/2/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
SS16-14-10A	SS16-14-10A-3"	0.0	CT	6/25/14	<0.034	2.3	0.3	<0.034	2.6
	SS16-14-10A-1'	1.0	CT	6/25/14	<0.034	1.8	0.3	<0.034	2.1
	SS16-14-10A-2'	2.0	CT	7/21/14	<0.033	1.9	0.19	<0.033	2.09
SS16-14-10B	SS16-14-10B-3"	0.0	CT	6/25/14	<0.065	3.4	0.82	<0.065	4.22
	SS16-14-10B-1'	1.0	CT	6/25/14	<0.0096	0.46	0.17	<0.0096	0.63
SS16-14-10C	SS16-14-10C-3"	0.0	CT	6/25/14	<0.0098	0.37	0.12	<0.0098	0.49
	SS16-14-10C-1'	1.0	CT	6/25/14	<0.033	0.15	0.21	<0.033	0.36
SS16-14-10D	SS16-14-10D-3"	0.0	CT	6/25/14	<0.68	36	16	<0.68	52
	SS16-14-10D-1'	1.0	CT	6/25/14	<0.034	0.15	0.037	<0.034	0.187
SS16-14-10E	SS16-14-10E-0'	0.0	CT	7/18/14	<1.3	9.9	<1.3	<1.3	9.9
	SS16-14-10E-1'	1.0	CT	7/18/14	<0.033	1.6	0.33	<0.033	1.93
SS16-14-10F	SS16-14-10F-0'	0.0	CT	7/18/14	<0.0098	0.58	<0.0098	<0.0098	0.58
	SS16-14-10F-1'	1.0	CT	7/18/14	<0.034	1.9	0.33	<0.034	2.23
SS16-14-10G	SS16-14-10G-0'	0.0	CT	7/18/14	<0.0099	0.063	<0.0099	<0.0099	0.063
	SS16-14-10G-1'	1.0	CT	7/18/14	<0.034	<0.034	<0.034	<0.034	ND
SS16-14-10H	SS16-14-10H-0'	0.0	CT	7/18/14	<1.4	120	15	<1.4	135
	SS16-14-10H-1'	1.0	CT	7/18/14	<0.0095	0.53	<0.0095	<0.0095	0.53
SS16-14-10I	SS16-14-10I-0'	0.0	CT	7/18/14	<0.0098	0.06	0.04	<0.0098	0.1
	SS16-14-10I-1'	1.0	CT	7/18/14	<0.0094	0.081	0.026	<0.0094	0.107
SS16-14-11	SS16-14-11-0.5'	0.5	CT	6/2/14	<0.0097	0.24	0.081	<0.0097	0.321
	SS16-14-11-1.5'	1.5	CT	6/2/14	<0.0096	0.11	0.059	<0.0096	0.169
SS16-14-12	SS16-14-12-0'	0.0	CT	6/2/14	<0.0097	0.046	<0.0097	<0.0097	0.046
	SS16-14-12-1'	1.0	CT	6/2/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
SB16-14-13	SS16-14-13-0'	0.0	GEL	6/2/14	<0.00434	<0.00144	<0.00144		ND
	SS16-14-13-1'	1.0	GEL	6/2/14	<0.00414	<0.00414	<0.00414		ND
SB16-14-19	SB16-14-19-0'	0.0	CT	6/2/14	<0.0099	<0.0099	0.0024 <sup>J</sup>	<0.0099	0.0024 <sup>J</sup>
	SB16-14-19-1'	1.0	CT	6/2/14	<0.0098	<0.0098	0.0024 <sup>J</sup>	<0.0098	0.0024 <sup>J</sup>

**Table 1-B (Cont'd)**  
**Soil Sampling Results from Old Town Demolition Project-Building 16 Area**  
**Polychlorinated Biphenyls**  
(concentrations in mg/kg)

					PCBs-8082**				
					Aroclor-1242	Aroclor-1254	Aroclor-1260	Aroclor-1268	Total PCBs
Screening Level*									1.0
Location	Sample ID	Depth (ft)	Lab	Date					
Soil Samples									
SB16-14-20	SB16-14-20-0'	0.0	GEL	5/30/14	<0.00415	<0.00415	<0.00415		ND
	SB16-14-20-5'	5.0	GEL	5/30/14	<0.0043	<0.0043	<0.0043		ND
SS16-14-22	SS16-14-22-0'	0.0	GEL	6/2/14	<0.00372	<0.00372	<0.00372		ND
	SS16-14-22-1'	1.0	GEL	6/2/14	<0.00385	0.00462	<0.00385		0.00462
SS16-14-23	SS16-14-23-0.5'	0.5	CT	6/2/14	<0.0096	<0.0096	<0.0096	<0.0096	ND
	SS16-14-23-1.5'	1.5	CT	6/2/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
SS16-14-24	SS16-14-24-0.5'	0.5	CT	6/2/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
	SS16-14-24-1.5'	1.5	CT	6/2/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
SB16-14-25	SB16-14-25-0'	0.0	GEL	5/30/14	<0.00414	0.00439	0.0044		0.00879
	SB16-14-25-1'	1.0	GEL	5/30/14	<0.00414	<0.00414	<0.00414		ND
	SB16-14-25-6'	6.0	GEL	7/3/14	<0.00395	<0.00395	<0.00395		ND
SS16-14-26	SS16-14-26-0'	0.0	CT	5/30/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
	SS16-14-26-1'	1.0	CT	5/30/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
SB16-14-27	SB16-14-27-0'	0.0	CT	5/30/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
	SB16-14-27-1'	1.0	CT	5/30/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
	SB16-14-27-6'	6.0	CT	7/3/14	<0.067	<0.067	0.17	<0.067	0.17
SS16-14-28	SS16-14-28-0'	0.0	CT	5/30/14	<0.0098	0.22	0.14	<0.0098	0.36
	SS16-14-28-1'	1.0	CT	5/30/14	<0.0094	<0.0094	<0.0094	<0.0094	ND
SS16-14-29	SS16-14-29-0'	0.0	CT	5/30/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
	SS16-14-29-1'	1.0	CT	5/30/14	<0.0094	0.085	0.018	<0.0094	0.103
SB16-14-31	SB16-14-31-0'	0.0	CT	6/3/18	<0.0097	<0.0097	<0.0097	<0.0097	ND
	SB16-14-31-1'	1.0	CT	6/3/18	<0.0097	<0.0097	<0.0097	<0.0097	ND
SS16-14-32	SS16-14-32-0'	0.0	CT	5/30/14	<0.0097	<0.0097	0.022	<0.0097	0.022
	SS16-14-32-1'	1.0	CT	5/30/14	<0.0096	<0.0096	0.0042 <sup>J</sup>	<0.0096	0.0042 <sup>J</sup>
SS16-14-33	SS16-14-33-0'	0.0	CT	5/30/14	<0.0093	<0.0093	<0.0093	<0.0093	ND
	SS16-14-33-1'	1.0	CT	5/30/14	<0.0099	<0.0099	0.012	<0.0099	0.012
SS16-14-34	SS16-14-34-0'	0.0	CT	5/30/14	<0.0099	<0.0099	<0.0099	<0.0099	ND
	SS16-14-34-1'	1.0	CT	5/30/14	<0.0098	0.53	0.13	<0.0098	0.66
	SS16-14-34-2'	2.0	CT	6/11/14	<0.012	<0.012	<0.012	<0.012	ND
SS16-14-35	SS16-14-35-0'	0.0	CT	5/30/14	<0.0097	<0.0097	<0.0097	<0.0097	ND
	SS16-14-35-1'	1.0	CT	5/30/14	<0.069	4.2	0.22	<0.069	4.42
	SS16-14-35-2'	2.0	CT	6/11/14	<0.012	0.74	<0.012	<0.012	0.74
SS16-14-38	SS16-14-38-0'	0.0	GEL	7/21/14	<0.00369	0.0134	0.0128		0.0262
	SS16-14-38-1'	1.0	GEL	7/21/14	<0.0368	0.185	0.141		0.325
SB16-14-54	SB16-14-54-3"	0.0	CT	6/25/14	<0.0098	<0.0098	0.023	<0.0098	0.023
	SB16-14-54-1'	1.0	CT	6/25/14	<0.033	2.2	0.37	<0.033	2.57
	SB16-14-54-2'	2.0	CT	7/21/14	<0.067	10	0.74	<0.067	10.74
	SB16-14-54-3'	3.0	CT	7/21/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
SB16-14-56	SB16-14-56-3"	0.0	CT	6/25/14	<0.033	0.59	0.2	<0.033	0.79
	SB16-14-56-1'	1.0	CT	6/25/14	<0.033	2.5	0.18	<0.033	2.68
	SB16-14-56-2'	2.0	CT	7/21/14	<0.0099	0.011	<0.0099	<0.0099	0.011
	SB16-14-56-3'	3.0	CT	7/21/14	<0.0096	<0.0096	<0.0096	<0.0096	ND
SS16-14-57	SS16-14-57-3"	0.0	CT	6/25/14	<0.034	0.21	0.067	<0.034	0.277
	SS16-14-57-1'	1.0	CT	6/25/14	<0.033	0.2	0.082	<0.033	0.282
SS16-14-63	SS16-14-63-3"	0.0	CT	7/3/14	<0.066	0.73	0.35	<0.066	1.08
	SS16-14-63-1'	1.0	CT	7/3/14	<0.067	1.0	0.66	<0.067	1.66
SS16-14-64	SS16-14-64-1'	1.0	CT	7/21/14	<0.0093	0.091	<0.0093	<0.0093	0.091
	SS16-14-64-2'	2.0	CT	7/21/14	<0.34	6.7	<0.34	<0.34	6.7



**Table 1-B (Cont'd)**  
**Soil Sampling Results from Old Town Demolition Project-Building 16 Area**  
**Polychlorinated Biphenyls**  
(concentrations in mg/kg)

Location	Sample ID	Depth (ft)	Lab	Date	PCBs-8082**				
					Aroclor-1242	Aroclor-1254	Aroclor-1260	Aroclor-1268	Total PCBs
					Screening Level*				
									1.0
<b>Soil Samples</b>									
SS16-14-65	SS16-14-65-0'	0.0	CT	7/21/14	<0.013	0.8	<0.013	<0.013	0.8
	SS16-14-65-1'	1.0	CT	7/21/14	<0.034	0.61	<0.034	<0.034	0.61
SS16-14-66	SS16-14-66-0'	0.0	CT	7/21/14	<0.014	0.43	<0.014	<0.014	0.43
SS16-14-67	SS16-14-67-0'	0.0	CT	7/21/14	<0.0099	0.027	0.024	<0.0099	0.051
	SS16-14-67-1'	1.0	CT	7/21/14	<0.033	2.3	<0.033	<0.033	2.3
SS16-14-68	SS16-14-68-1'	1.0	CT	7/21/14	<0.0097	<0.0097	<0.0097	<0.0097	ND
	SS16-14-68-2'	2.0	CT	7/21/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
SS16-14-69	SS16-14-69-0'	0.0	CT	7/25/14	<0.0096	<0.0096	0.063	<0.0096	0.063
	SS16-14-69-1'	1.0	CT	7/25/14	<0.0097	<0.0097	0.086	0.038	0.124
SS16-14-70	SS16-14-70-0'	0.0	CT	7/25/14	<0.0097	0.18	0.064	<0.0097	0.244
	SS16-14-70-1'	1.0	CT	7/25/14	<0.0096	0.39	0.18	<0.0096	0.57
SS16-14-71	SS16-14-71-0'	0.0	CT	7/25/14	<0.0096	<0.0096	<0.0096	<0.0096	ND
	SS16-14-71-1'	1.0	CT	7/25/14	<0.0097	0.024	0.028	<0.0097	0.052
SS16-14-72	SS16-14-72-0'	0.0	CT	7/25/14	<0.033	2.1	0.67	<0.033	2.77
	SS16-14-72-1'	1.0	CT	7/25/14	<0.0096	0.046	<0.0096	<0.0096	0.046
SS16-14-73	SS16-14-73-0'	0.0	CT	7/25/14	<0.0096	<0.0096	0.073	<0.0096	0.073
	SS16-14-73-1'	1.0	CT	7/25/14	<0.0097	0.13	0.053	<0.0097	0.183
SS16-14-74	SS16-14-74-0'	0.0	CT	7/25/14	<0.0096	0.22	0.087	<0.0096	0.307
	SS16-14-74-1'	1.0	CT	7/25/14	<0.034	<0.034	<0.034	<0.034	ND
SS16-14-75	SS16-14-75-0'	0.0	CT	7/25/14	<0.068	3.1	0.55	<0.068	3.65
	SS16-14-75-1'	1.0	CT	7/25/14	<0.0096	0.19	0.035	<0.0096	0.225
SS16-14-76	SS16-14-76-0'	0.0	CT	7/25/14	<0.33	26	3.2	<0.33	29.2
	SS16-14-76-1'	1.0	CT	7/25/14	<0.0095	0.089	0.02	<0.0095	0.109
SS16-14-77	SS16-14-77-0'	0.0	CT	7/25/14	<0.0098	0.51	0.22	<0.0098	0.73
	SS16-14-77-1'	1.0	CT	7/25/14	<0.0099	0.039	0.029	<0.0099	0.068
SS16-14-78	SS16-14-78-0'	0.0	CT	7/25/14	<0.069	4.4	1.3	<0.069	5.7
	SS16-14-78-1'	1.0	CT	7/25/14	<0.0098	0.02	0.019	<0.0098	0.039
SS16-14-79	SS16-14-79-0'	0.0	CT	7/25/14	<0.0098	0.42	0.15	<0.0098	0.57
	SS16-14-79-1'	1.0	CT	7/25/14	<0.0096	0.17	0.26	<0.0096	0.43
SS16-14-80	SS16-14-80-0'	0.0	CT	7/25/14	<0.0097	0.4	0.15	<0.0097	0.55
	SS16-14-80-1'	1.0	CT	7/25/14	<0.0094	<0.0094	0.029	<0.0094	0.029
SS16-14-81	SS16-14-81-0.5'	0.5	CT	8/1/14	<0.033	2.0	0.19	<0.033	2.19
	SS16-14-81-1.5'	1.5	CT	8/1/14	<0.13	3.6	0.27	<0.13	3.87
SS16-14-82	SS16-14-82-0.5'	0.5	CT	8/1/14	<0.0095	0.05	<0.0095	<0.0095	0.05
	SS16-14-82-1.5'	1.5	CT	8/1/14	<0.0094	<0.0094	<0.0094	<0.0094	ND
SS16-14-83	SS16-14-83-0.5'	0.5	CT	8/1/14	<0.0094	<0.0094	<0.0094	<0.0094	ND
	SS16-14-83-1.5'	1.5	CT	8/1/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
SS16-14-84	SS16-14-84-0.5'	0.5	CT	8/1/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
	SS16-14-84-1.5'	1.5	CT	8/1/14	<0.0096	<0.0096	<0.0096	<0.0096	ND
SS16-14-85	SS16-14-85-0.5'	0.5	CT	8/1/14	<0.009	<0.009	<0.009	<0.009	ND
	SS16-14-85-1.5'	1.5	CT	8/1/14	<0.0098	<0.0098	<0.0098	<0.0098	ND

\* Screening level for total PCBs is the Toxic Substances Control Act (TSCA) self-implementing cleanup level for PCBs in soil in high-occupancy areas.

\*\* Analytes included Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260, and 1268 unless otherwise noted.

Boldface type indicates concentration above screening level

CT: Analysis by Curtis & Tompkins Ltd

GEL: Analysis by General Engineering Laboratories LLC

J indicates an estimated value

<

 concentration less than reporting limit (RL)  
 not analyzed  
ND: No PCB Aroclors detected



**Table 1-C**  
**Soil/Sediment Sampling Results from Old Town Demolition Project-Buildings 52/52A Area**  
**Polychlorinated Biphenyls**  
(concentrations in mg/kg)

Screening Level*					PCBs-8082**				
					Aroclor-1242	Aroclor-1254	Aroclor-1260	Aroclor-1268	Total PCBs
									1.0
Location	Sample ID	Depth (ft)	Lab	Date					
Soil Samples									
SS52-14-8	SS52-14-8-0'	0.0	CT	3/5/14	<0.012	0.11	0.013		0.123
	SS52-14-8-1'	1.0	CT	3/5/14	<0.0095	0.05	<0.0095		0.05
SB52-14-8	SB52-14-8-5'	5.0	CT	5/21/14	<0.0093	<0.0093	<0.0093	<0.0093	ND
	SB52-14-8-6'	6.0	CT	5/21/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
	SB52-14-8-10'	10	CT	5/21/14	<0.0097	<0.0097	<0.0097	<0.0097	ND
	SB52-14-8-15'	15	CT	5/21/14	<0.0097	<0.0097	<0.0097	<0.0097	ND
SB52-14-9A	SB52-14-9A-8'	8	CT	5/7/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-9A-10'	10	CT	5/7/14	<0.012	<0.012	<0.012	<0.012	ND
SB52-14-9B	SB52-14-9B-3'	3.0	CT	5/21/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
	SB52-14-9B-6'	6.0	CT	5/21/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
	SB52-14-9B-8'	8.0	CT	5/7/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-9B-9'	9.0	CT	5/21/14	<0.0097	<0.0097	<0.0097	<0.0097	ND
	SB52-14-9B-10'	10	CT	5/7/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-9B-12'	12	CT	5/21/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
SB52-14-10	SB52-14-10-2'	0.0	CT	3/5/14	<0.012	<0.012	<0.012		ND
	SB52-14-10-3'	1.0	CT	3/5/14	<0.012	<0.012	<0.012		ND
SS52-14-11	SS52-14-11-0.5	0.5	CT	3/3/14	<0.012	<0.012	0.016		0.016
	SS52-14-11-1.5	1.5	CT	3/3/14	<0.012	<0.012	<0.012		ND
SS52-14-12	SS52-14-12-0.5	0.5	CT	3/3/14	<0.012	<0.012	0.012		0.012
SB52-14-20	SB52-14-20-3"	0.0	CT	5/9/14	<0.17	8.8	<0.17	<0.17	8.8
	SB52-14-20-1'	1.0	CT	5/9/14	<17	660	<17	<17	660
	SB52-14-20-3'	3.0	CT	5/9/14	<17	690	<17	<17	690
	SB52-14-20-5'	5.0	CT	4/7/14	<1.3	250	16		266
	SB52-14-20-6'	6.0	CT	4/7/14	<1.3	300	16		300
	SB52-14-20-8'	8.0	CT	5/9/14	<17	840	<17	<17	840
	SB52-14-20-10'	10	CT	5/9/14	<1.7	11	<1.7	<1.7	11
	SB52-14-20-12'	12	CT	5/9/14	<0.84	14	<0.84	<0.84	14
	SB52-14-20-12.5'	12.5	CT	5/20/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
	SB52-14-20-15'	15	CT	5/20/14	<0.0097	<0.0097	<0.0097	<0.0097	ND
	SB52-14-20-20'	20	CT	5/20/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
	SB52-14-20-24'	24	CT	5/20/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
SB52-14-22	SB52-14-22-1.5'	1.5	CT	5/21/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-22-4'-8'	4.0	CT	5/21/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-22-8'-12'	8.0	CT	5/21/14	<0.0099	0.032	<0.0099	<0.0099	0.032
SB52-14-24	SB52-14-24-2'	2.0	CT	5/21/14	0.19	<0.012	<0.012	<0.012	0.19
	SB52-14-24-5'	5.0	CT	5/21/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-24-10'	10	CT	5/21/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-24-16'	16	CT	5/21/14	<0.012	<0.012	<0.012	<0.012	ND
SB52-14-25	SB52-14-25-1'	1.0	CT	5/20/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-25-5'	5.0	CT	5/20/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-25-10'	10	CT	5/20/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-25-13'	13	CT	5/20/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-25-15.5'	15.5	CT	5/20/14	<0.012	<0.012	<0.012	<0.012	ND
SB52-14-26	SB52-14-26-3"	0.3	CT	5/9/14	<0.42	4.9	<0.42	<0.42	4.9
	SB52-14-26-1'	1.0	CT	5/9/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-26-3'	3.0	CT	5/9/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-26-6'	6.0	CT	5/9/14	<0.012	<0.012	<0.012	<0.012	ND

**Table 1-C (Cont'd)**  
**Soil/Sediment Sampling Results from Old Town Demolition Project-Buildings 52/52A Area**  
**Polychlorinated Biphenyls**  
(concentrations in mg/kg)

					PCBs-8082**				
					Aroclor-1242	Aroclor-1254	Aroclor-1260	Aroclor-1268	Total PCBs
									1.0
Screening Level*									
Location	Sample ID	Depth (ft)	Lab	Date					
Soil Samples									
SB52-14-27	SB52-14-27-0.25'	0.0	CT	5/21/14	<0.041	1.2	<0.041	<0.041	1.2
	SB52-14-27-2'	2.0	CT	5/21/14	<0.012	0.037	<0.012	<0.012	0.037
	SB52-14-27-5'	5.0	CT	5/21/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-27-10'	10	CT	5/21/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-27-15'	15	CT	5/21/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-27-20'	20	CT	5/21/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-27-24'	24	CT	5/21/14	<0.012	<0.012	<0.012	<0.012	ND
SB52-14-28	SB52-14-28-3"	0.0	CT	5/9/14	<0.012	0.19	<0.012	<0.012	0.19
	SB52-14-28-1'	1.0	CT	5/9/14	<0.012	0.052	<0.012	<0.012	0.052
	SB52-14-28-3'	4.0	CT	5/9/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-28-6'	6.0	CT	5/9/14	<0.012	<0.012	<0.012	<0.012	ND
	SB52-14-28-9'	9.0	CT	5/9/14	<0.012	0.45	<0.012	<0.012	0.45
SB52-14-29	SB52-14-29-3.5'	3.5	CT	5/14/14	<83	170	<83	<83	170
SB52-14-30	SB52-14-30-1.5'	1.5	CT	5/14/14	<0.041	1.1	<0.041	<0.041	1.1
	SB52-14-30-4.5'	4.5	CT	5/14/14	<0.083	0.82	<0.083	<0.083	0.82
SB52-14-31	SB52-14-31-2'	2.0	CT	5/14/14	<0.083	2.2	<0.083	<0.083	2.2
	SB52-14-31-3'	3.0	CT	6/13/14	<0.0095	0.36	<0.0095	<0.0095	0.36
SS52-14-32	SS52-14-32-0.25'	0.0	CT	5/16/14	<0.012	0.17	<0.012	<0.012	0.17
SS52-14-33	SS52-14-33-0.25'	0.0	CT	5/16/14	<0.085	0.85	0.24	<0.085	1.09
SB52-14-34	SB52-14-34-0.25'	0.0	CT	5/16/14	<0.83	35	<0.83	<0.83	35
	SB52-14-34-1'	1.0	CT	6/13/14	<0.066	3.9	0.5	<0.066	4.4
	SB52-14-34-2'	2.0	CT	7/21/14	<0.0097	0.24	<0.0097	<0.0097	0.24
SB52-14-35	SB52-14-35-0.25'	0.0	CT	5/21/14	<0.041	2.0	<0.041	<0.041	2.0
	SB52-14-35-2'	2.0	CT	5/21/14	<0.0096	<0.0096	0.0091 <sup>J</sup>	<0.0096	0.0091 <sup>J</sup>
	SB52-14-35-5'	5.0	CT	5/21/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
	SB52-14-35-10'	10	CT	5/21/14	<0.0099	<0.0099	<0.0099	<0.0099	ND
	SB52-14-35-15'	15	CT	5/21/14	<0.0099	<0.0099	<0.0099	<0.0099	ND
SB52-14-36	SB52-14-36-0.25'	0.0	CT	5/21/14	<0.34	12	<0.34	<0.34	12
	SB52-14-36-1'	1.0	CT	5/21/14	<0.33	14	<0.33	<0.33	14
	SB52-14-36-2'	2.0	CT	6/13/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
SB52-14-37	SB52-14-37-0.25'	0.0	CT	6/16/14	<0.066	3.3	0.58	<0.066	3.88
	SB52-14-37-1'	1.0	CT	6/16/14	<0.067	2.0	0.42	<0.067	2.42
	SB52-14-37-2'	2.0	CT	6/16/14	<0.0096	<0.0096	<0.0096	<0.0096	ND
SB52-14-38	SB52-14-38-0.25'	0.0	CT	6/16/14	<0.33	9.2	<0.33	<0.33	9.2
	SB52-14-38-1'	1.0	CT	6/16/14	<0.033	0.54	0.23	<0.033	0.77
	SB52-14-38-2'	2.0	CT	6/16/14	<0.0096	0.074	<0.0096	<0.0096	0.074
SS52-14-40	SS52-14-40-0.25'	0.0	CT	6/13/14	<0.033	0.63	0.17	<0.033	0.8
	SS52-14-40-1'	1.0	CT	6/13/14	<0.0096	0.2	0.011	<0.0096	0.211
SB52-14-41	SB52-14-41-0.25'	0.0	CT	6/13/14	<0.065	3.6	0.53	<0.065	4.13
	SB52-14-41-1'	1.0	CT	6/13/14	<0.065	3.5	0.67	<0.065	4.17
SS52-14-42	SS52-14-42-0.25'	0.0	CT	6/13/14	<0.33	6.1	1.1	<0.33	7.2
	SS52-14-42-1'	1.0	CT	6/13/14	<0.33	0.69	0.15	<0.33	0.84
SB52-14-43	SB52-14-43-0.25'	0.0	CT	6/13/14	<1.3	110	12	<1.3	122
	SB52-14-43-1'	1.0	CT	7/7/14	<0.066	6.1	0.66	<0.066	6.76
	SB52-14-43-3'	3.0	CT	7/7/14	<0.066	4.0	0.44	<0.066	4.44
	SB52-14-43-6'	6.0	CT	7/7/14	<0.0095	0.062	<0.0095	<0.0095	0.062
SB52-14-44	SB52-14-44-3"	0.0	CT	7/7/14	<0.068	1.5	0.36	<0.068	1.86

**Table 1-C (Cont'd)**  
**Soil/Sediment Sampling Results from Old Town Demolition Project-Buildings 52/52A Area**  
**Polychlorinated Biphenyls**  
 (concentrations in mg/kg)

Screening Level*					PCBs-8082**				
					Aroclor-1242	Aroclor-1254	Aroclor-1260	Aroclor-1268	Total PCBs
Location	Sample ID	Depth (ft)	Lab	Date					1.0
Soil Samples									
SB52-14-45	SB52-14-45-3"	0.0	CT	7/7/14	<0.34	21	4.0	<0.34	25
	SB52-14-45-1'	1.0	CT	7/7/14	<1.3	23	3.3	<1.3	26.3
	SB52-14-45-2'	2.0	CT	7/21/14	<0.0098	0.62	<0.0098	<0.0098	0.62
SB52-14-46	SB52-14-46-3"	0.0	CT	7/7/14	<0.069	2.9	0.73	<0.069	3.63
	SB52-14-46-1'	1.0	CT	7/7/14	<0.067	4.2	1.2	<0.067	5.4
	SB52-14-46-2.5'	2.5	CT	7/21/14	<0.0096	0.07	<0.0096	<0.0096	0.07
SB52-14-47	SB52-14-47-0'	0.0	CT	7/18/14	<0.034	0.17	0.089	<0.034	0.259
	SB52-14-47-1'	1.0	CT	7/18/14	<0.0096	0.013	0.015	<0.0096	0.028
SB52-14-48	SB52-14-48-0'	0.0	CT	7/18/14	<0.034	1.3	0.31	<0.034	1.61
	SB52-14-48-1'	1.0	CT	7/18/14	<0.033	0.39	0.23	<0.033	0.62
SB52-14-49	SB52-14-49-0.5'	0.5	CT	7/30/14	<0.033	0.26	1.0	<0.033	1.26
	SB52-14-49-1.5'	1.5	CT	7/30/14	<0.0096	<0.0096	<0.0096	<0.0096	ND
SB52-14-50	SB52-14-50-0.4'	0.0	CT	7/30/14	<0.0094	<0.0094	0.45	<0.0094	0.45
	SB52-14-50-1.4'	1.4	CT	7/30/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
SB52-14-52	SB52-14-52-0.7'	0.7	CT	7/30/14	<0.0094	<0.0094	0.11	<0.0094	0.11
SB52-14-53	SB52-14-53-0.5'	0.5	CT	7/30/14	<0.033	<0.033	2.0	<0.033	2.0
	SB52-14-53-1.5'	1.5	CT	7/30/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
SB52-14-54	SB52-14-54-0.4'	0.0	CT	7/30/14	<0.0095	<0.0095	0.24	<0.0095	0.24
	SB52-14-54-1'	1.0	CT	7/30/14	<0.0093	<0.0093	0.022	<0.0093	0.022
SB52-14-55	SB52-14-55-0.4'	0.4	CT	7/30/14	<1.3	<1.3	45	<1.3	45
	SB52-14-55-1.4'	1.4	CT	7/30/14	<0.0094	<0.0094	<0.0094	<0.0094	ND
SB52-14-56	SB52-14-56-1'	1.0	CT	7/30/14	<0.0094	0.066	0.074	<0.0094	0.14
	SB52-14-56-1.9'	1.9	CT	7/30/14	<0.0095	<0.0095	0.035	<0.0095	0.035
	SB52-14-56-3.9'	3.9	CT	7/30/14	<0.0099	<0.0099	<0.0099	<0.0099	ND
SB52-14-57	SB52-14-57-3"	0.0	CT	7/21/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
	SB52-14-57-1'	1.0	CT	7/21/14	<0.0098	<0.0098	0.011	<0.0098	0.011
	SB52-14-57-3'	3.0	CT	7/21/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
SB52-14-58	SB52-14-58-3"	0.0	CT	7/21/14	<0.034	6.6	0.35	<0.034	6.95
	SB52-14-58-1'	1.0	CT	7/21/14	<0.066	5.2	0.62	<0.066	5.82
SB52-14-59	SB52-14-59-3"	0.0	CT	7/21/14	<0.0097	<0.0097	<0.0097	<0.0097	ND
	SB52-14-59-1'	1.0	CT	7/21/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
SB52-14-60	SB52-14-60-3"	0.0	CT	7/21/14	<0.033	2.4	0.57	<0.033	2.97
	SB52-14-60-1'	1.0	CT	7/21/14	<0.0094	0.017	0.013	<0.0094	0.03
	SB52-14-60-3'	3.0	CT	7/21/14	<0.0098	<0.0098	<0.0098	<0.0098	ND
SB52-14-61	SB52-14-61-3"	0.0	CT	7/21/14	<0.0099	0.55	0.34	<0.0099	0.89
	SB52-14-61-1'	1.0	CT	7/21/14	<0.065	5.2	1.5	<0.065	6.7
	SB52-14-61-3'	3.0	CT	7/21/14	<0.0093	<0.0093	<0.0093	<0.0093	ND
SB52-14-62	SB52-14-62-0.4'	0.4	CT	7/30/14	<0.013	<0.013	<0.013	<0.013	ND
	SB52-14-62-1.4'	1.4	CT	7/30/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
SS52A-14-1	SS52A-14-1-0	0.0	CT	5/16/14	<0.083	1.2	0.15	<0.083	1.35
	SS52A-14-1-1.5	1.5	CT	7/18/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
SS52A-14-1A	SS52A-14-1A-3"	0.0	CT	6/25/14	<0.0097	<0.0097	0.0053 <sup>J</sup>	<0.0097	0.0053 <sup>J</sup>
	SS52A-14-1A-1'	1.0	CT	6/25/14	<0.034	<0.034	<0.034	<0.034	ND
SS52A-14-1B	SS52A-14-1B-3"	0.0	CT	6/25/14	<0.34	18	3.7	<0.34	21.7
	SS52A-14-1B-1'	1.0	CT	6/25/14	<0.032	1.8	0.45	<0.032	2.25
	SS52A-14-1B-3'	3.0	CT	7/18/14	<0.0096	<0.0096	<0.0096	<0.0096	ND
SB52A-14-1C	SB52A-14-1C-3"	0.0	CT	6/25/14	<0.13	6.9	1.7	<0.13	8.6
	SB52A-14-1C-1'	1.0	CT	6/25/14	<0.33	25	6.6	<0.33	31.6
	SB52A-14-1C-3'	3.0	CT	7/18/14	<0.0096	0.17	0.037	<0.0096	0.207

**Table 1-C (Cont'd)**  
**Soil/Sediment Sampling Results from Old Town Demolition Project-Buildings 52/52A Area**  
**Polychlorinated Biphenyls**  
(concentrations in mg/kg)

Screening Level*					PCBs-8082**				
					Aroclor-1242	Aroclor-1254	Aroclor-1260	Aroclor-1268	Total PCBs
									1.0
Location	Sample ID	Depth (ft)	Lab	Date					
Soil Samples									
SB52A-14-1D	SB52A-14-1D-0'	0.0	CT	7/18/14	<0.0098	0.065	0.027	<0.0098	0.092
	SB52A-14-1D-1'	1.0	CT	7/18/14	<0.034	2.0	0.66	<0.034	2.66
SB52A-14-1E	SB52A-14-1E-0'	0.0	CT	7/18/14	<0.069	2.3	0.79	<0.069	3.09
	SB52A-14-1E-1'	1.0	CT	7/18/14	<0.0098	0.073	0.049	<0.0098	0.122
SB52A-14-1F	SB52A-14-1F-0'	0.0	CT	7/18/14	<0.034	1.0	0.36	<0.034	1.36
	SB52A-14-1F-1'	1.0	CT	7/18/14	<0.0094	0.034	0.02	<0.0094	0.054
SB52A-14-1G	SB52A-14-1G-0'	0.0	CT	7/18/14	<0.0094	0.52	0.24	<0.0094	0.76
	SB52A-14-1G-1'	1.0	CT	7/18/14	<0.0099	<0.0099	0.054	<0.0099	0.054
SB52A-14-1H	SB52A-14-1H-0'	0.0	CT	7/18/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
	SB52A-14-1H-1'	1.0	CT	7/18/14	<0.0099	0.074	0.011	<0.0099	0.085
	SB52A-14-1H-3'	3.0	CT	7/18/14	<0.0094	<0.0094	<0.0094	<0.0094	ND
SB52A-14-1I	SB52A-14-1I-0'	0.0	CT	7/18/14	<0.0098	0.48	0.47	<0.0098	0.95
SS52A-14-2	SS52A-14-2-0	0.0	CT	5/16/14	<0.012	<0.012	0.0068 <sup>J</sup>	<0.012	0.0068 <sup>J</sup>
SS52A-14-3	SS52A-14-3-0	0.0	CT	5/16/14	<0.012	<0.012	0.013	<0.012	0.013
SS52A-14-4	SS52A-14-4-0	0.0	CT	5/16/14	<0.012	<0.012	<0.012	<0.012	ND
SS52A-14-5	SS52A-14-5-3"	0.0	CT	6/26/14	<0.13	4.0	2.0	<0.13	6.0
	SS52A-14-5-1'	1.0	CT	6/26/14	<0.034	1.6	0.45	<0.034	2.05
SS52A-14-8	SS52A-14-8-0.5	0.5	CT	2/24/14	<0.2	<0.2	0.43		0.43
	SS52A-14-8-1.5	1.5	CT	2/24/14	<0.2	<0.2	<0.2		ND
SS52A-14-9	SS52A-14-9-0.5	0.5	CT	2/24/14	<0.2	<0.2	<0.2		ND
	SS52A-14-9-1.5	1.5	CT	2/24/14	<0.2	<0.2	<0.2		ND
SS52A-14-10	SS52A-14-10-0'	0.0	CT	6/4/14	<0.0099	0.4	0.12	<0.0099	0.52
	SS52A-14-10-1'	1.0	CT	6/4/14	<0.0095	0.013	0.016	<0.0095	0.029
SS52A-14-12	SS52A-14-12-0'	0.0	CT	6/4/14	<0.0098	0.11	0.13	<0.0098	0.24
	SS52A-14-12-1'	1.0	CT	6/4/14	<0.0099	0.13	0.13	<0.0099	0.26
SS52A-14-13	SS52A-14-13-0'	0.0	CT	6/4/14	<0.0099	0.3	0.37	<0.0099	0.67
	SS52A-14-13-1'	1.0	CT	6/4/14	<0.0099	0.14	0.32	<0.0099	0.46
SS52A-14-14	SS52A-14-14-3"	0.0	CT	6/25/14	<0.034	0.37	0.2	<0.034	0.57
	SS52A-14-14-1'	1.0	CT	6/25/14	<0.034	0.34	0.15	<0.034	0.49
SS52A-14-15	SS52A-14-15-3"	0.0	CT	6/25/14	<0.0094	0.087	0.031	<0.0094	0.118
	SS52A-14-15-1'	1.0	CT	6/25/14	<0.034	<0.034	<0.034	<0.034	ND
SS52A-14-16	SS52A-14-16-3"	0.0	CT	7/7/14	<0.067	0.14	0.34	<0.067	0.48
	SS52A-14-16-1'	1.0	CT	7/7/14	<0.0095	<0.0095	<0.0095	<0.0095	ND
Sediment Sample									
SS52-14-Sump			CT	5/14/14	<83	1,800	<83	<83	1,800

\* Screening level for total PCBs is the Toxic Substances Control Act (TSCA) self-implementing cleanup level for PCBs in soil in high-occupancy areas.

\*\* Analytes included Aroclors 1016, 1221, 1232, 1242, 1248, 1254, 1260, and 1268 unless otherwise noted.

CT: Analysis by Curtis & Tompkins Ltd

GEL: Analysis by General Engineering Laboratories LLC

Boldface type indicates concentration above screening level.

J indicates an estimated value

< concentration less than reporting limit (RL)

not analyzed

ND: No PCB Aroclors detected